CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory
An ISO 9001:2015 Certified Company
NABL - Accredited Laboratory as per ISO / IEC-17025 : 2017

Job No: CTCE/BBMP/EN/B No.15/CSR-10856/CEMENT/2019-20 Date: 21.10.2019

TEST REPORT ON CEMENT

* Customer	:	Asst. Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	Sri. Sunil.N, #1384, 1/2111 B Main B Block, 2nd Stage, Rajajinagara, Bangalore - 21.
* Name of Work	:	Construction and repairs to culverts in Dasarahalli Ward No.15, BBMP, Bangalore.
* Reference	:	EE/DD/W.O/406/2019-20 Dated : 27.09.2019
* Sample ID	:	Cement
Sample Received on	:	19.10.2019
Period of Testing	:	19.10.2019 to 21.10.2019
Report Issue Date	:	21.10.2019

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	Standard Consistency	IS-4031 (Part -4) : 1988 (RA-2019)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	190 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	375 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) : 1988 (RA-2019)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Authorised Signatory

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.
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JAS-ANZ BSCIC ISO 9001 REGISTERED

Lab No.: CTCE/BBMP/SN/W.No.15/CSR-1085a/SAND-Gradation/2019-20 21.10.2019

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: **Sri. Sunil.N,** #1384, 1/2111 B Main B Block, 2nd Stage, Rajajinagara, Bangalore – 21.
* Name of Work	: Construction and repairs to culverts in Dasarahalli Ward No.15, BBMP, Bangalore.
* Reference	: EE/DD/W.O/406/2019-20 Dated : 27.09.2019
* Sample ID	: Fine Aggregates (Manufactured Sand)
Test Method As Per	: IS - 2386 (Part 1) : 1963 (RA-2016)
Sample Received On	: 19.10.2019
Date of Testing	: 21.10.2019
Report Issue Date	: 21.10.2019

Total Wt. of Aggregates in gms = 1000

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-2016			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	96.20	90-100	90-100	90-100	95-100
2.36	78.20	60-95	75-100	85-100	95-100
1.18	66.20	30-70	55-90	75-100	90-100
600 Micron	37.60	15-34	35-59	60-79	80-100
300 Micron	17.40	5-20	8-30	12-40	15-50
150 Micron	5.30	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

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Remarks : This sample is under Zone-II specific limits.

Note 1 :

For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

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JAS-ANZ BSCIC ISO 9001 REGISTERED

No.: CTCE/BBMP/SN/W.No.15/CSR-1085a/AGG/GR/2019-20 21.10.2019

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. Sunil.N,** #1384, 1/2111 B Main B Block, 2nd Stage, Rajajinagara, Bangalore – 21.
* Name of Work	:	Construction and repairs to culverts in Dasarahalli Ward No.15, BBMP, Bangalore.
* Reference	:	EE/DD/W.O/406/2019-20 Dated : 27.09.2019
* Sample ID	:	Coarse Aggregates (40mm)
Test Method As Per	:	IS - 2386 (Part 1) : 1963 (RA-2016)
Sample Received on	:	19.10.2019
Date of Testing	:	21.10.2019
Report Issue Date	:	21.10.2019

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS - 383 : 2016	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.48	95-100	85-100
20	40.44	30-70	0-20
10	14.40	10-35	0-5
4.75	2.36	0-5	-

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* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/SN/W.No.15/Steel/2019-20

24.10.2019

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. Sunil.N,** #1384, 1/2111 B Main B Block, 2nd Stage, Rajajinagara, Bangalore – 21.
* Name of work	:	Construction and repairs to culverts in Dasarahalli Ward No.15, BBMP, Bangalore.
* Reference	:	EE/DD/W.O/406/2019-20 Dated : 27.09.2019
* Samples ID	:	10 mm Bar
Test Method as per	:	IS - 1786 : 2008 (RA-2016)
Date of Testing	:	24.10.2019
Report Issue Date	:	24.10.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	510	551	13.1	O.K	O.K

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Job No.: CTCE/BBMP/SN/W.No.15/Steel/2019-20 24.10.2019

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. Sunil.N,** #1384, 1/2111 B Main B Block, 2nd Stage, Rajajinagara, Bangalore – 21.
* Name of work	:	Construction and repairs to culverts in Dasarahalli Ward No.15, BBMP, Bangalore.
* Reference	:	EE/DD/W.O/406/2019-20 Dated : 27.09.2019
* Samples ID	:	12 mm Bar
Test Method as per	:	IS - 1786 : 2008 (RA-2016)
Date of Testing	:	24.10.2019
Report Issue Date	:	24.10.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	12	0.89	515	556	13.2	O.K	O.K

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Job No: CTCE/BBMP/SN/W.No.15/CSR-1085a/Cube/2019-20

25.11.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP.
* Agency	:	**Sri. Sunil.N,** #1384, 1/2111 B Main B Block, 2nd Stage, Rajajinagara, Bangalore – 21.
* Name of the work	:	Construction and repairs to culverts in Dasarahalli Ward No.15, BBMP, Bangalore.
* Reference	:	EE/DD/W.O/406/2019-20 Dated : 27.09.2019
* Sample ID	:	RCC Culvert Bottom Slab Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	25.11.2019
Report Issue Date	:	25.11.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.10.2019	25.11.2019	8.358	495.5	22.02
2	28.10.2019	25.11.2019	8.395	512.3	22.77
3	28.10.2019	25.11.2019	8.415	523.3	23.26

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Job No.: CTCE/BBMP/SN/W.No.15/CSR-1085a/Cube/2019-20

25.11.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	Asst. Executive Engineer, T. Dasarahalli Sub Division, BBMP,
* Agency	:	Sri. Sunil.N, #1384, 1/2111 B Main B Block, 2nd Stage, Rajajinagara, Bangalore – 21.
* Name of the work	:	Construction and repairs to culverts in Dasarahalli Ward No.15, BBMP, Bangalore.
* Reference	:	EE/DD/W.O/406/2019-20 Dated : 27.09.2019
* Sample ID	:	RCC Culvert Bottom Slab Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	25.11.2019
Report Issue Date	:	25.11.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.10.2019	25.11.2019	8.217	475.5	21.13
2	28.10.2019	25.11.2019	8.305	489.6	21.76
3	28.10.2019	25.11.2019	8.395	512.6	22.78

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Job No.: CTCE/BBMP/SN/W.No.15/CSR-1085a/Cube/2019-20

28.11.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP,
* Agency	:	**Sri. Sunil.N,** #1384, 1/2111 B Main B Block, 2nd Stage, Rajajinagara, Bangalore – 21.
* Name of the work	:	Construction and repairs to culverts in Dasarahalli Ward No.15, BBMP, Bangalore.
* Reference	:	EE/DD/W.O/406/2019-20 Dated : 27.09.2019
* Sample ID	:	RCC Culvert Side Wall Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	28.11.2019
Report Issue Date	:	28.11.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.10.2019	28.11.2019	8.305	483.5	21.49
2	31.10.2019	28.11.2019	8.405	512.6	22.78
3	31.10.2019	28.11.2019	8.395	502.5	22.33

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Job No.: CTCE/BBMP/SN/W.No.15/CSR-1085a/Cube/2019-20 28.11.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP,
* Agency	:	**Sri. Sunil.N,** #1384, 1/2111 B Main B Block, 2nd Stage, Rajajinagara, Bangalore – 21.
* Name of the work	:	Construction and repairs to culverts in Dasarahalli Ward No.15, BBMP, Bangalore.
* Reference	:	EE/DD/W.O/406/2019-20 Dated : 27.09.2019
* Sample ID	:	RCC Culvert Side Wall Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	28.11.2019
Report Issue Date	:	28.11.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.10.2019	28.11.2019	8.325	475.5	21.13
2	31.10.2019	28.11.2019	8.395	485.9	21.60
3	31.10.2019	28.11.2019	8.399	512.7	22.79

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Job No.: CTCE/BBMP/SN/W.No.15/CSR-1085a/Cube/2019-20

28.11.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP,
* Agency	:	**Sri. Sunil.N,** #1384, 1/2111 B Main B Block, 2nd Stage, Rajajinagara, Bangalore – 21.
* Name of the work	:	Construction and repairs to culverts in Dasarahalli Ward No.15, BBMP, Bangalore.
* Reference	:	EE/DD/W.O/406/2019-20 Dated : 27.09.2019
* Sample ID	:	RCC Culvert Side Wall Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	28.11.2019
Report Issue Date	:	28.11.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.10.2019	28.11.2019	8.228	486.5	21.62
2	31.10.2019	28.11.2019	8.305	512.2	22.76
3	31.10.2019	28.11.2019	8.395	529.6	23.54

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Job No.: CTCE/BBMP/SN/W.No.15/CSR-1085a/Cube/2019-20

04.12.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP,
* Agency	:	**Sri. Sunil.N,** #1384, 1/2111 B Main B Block, 2nd Stage, Rajajinagara, Bangalore – 21.
* Name of the work	:	Construction and repairs to culverts in Dasarahalli Ward No.15, BBMP, Bangalore.
* Reference	:	EE/DD/W.O/406/2019-20 Dated : 27.09.2019
* Sample ID	:	RCC Culvert Side Wall Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	04.12.2019
Report Issue Date	:	04.12.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.11.2019	04.12.2019	8.102	499.3	22.19
2	06.11.2019	04.12.2019	8.205	519.5	23.09
3	06.11.2019	04.12.2019	8.392	502.4	22.33

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